

# Bachelor of Science in Chemistry with an Emphasis in Biochemistry

## University of Missouri-St. Louis

### General Education Requirements

(see UMSL Bulletin for details, note: these are the requirements as of Fall 2015)

First Year Writing: \_\_\_\_\_

Advanced Expository Writing-Junior Level English Requirement (Eng 3100 or Eng 3160 preferred):  
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American History and Government Requirement: (1 course)  
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Cultural Diversity Requirement (1 course, see Bulletin for list):  
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Communication Proficiency (1 course):  
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Information Literacy (1 course):  
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Social and Behavioral Sciences (9 hours):  
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Humanities and Fine Arts (9 hours):  
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Mathematical and Life/Natural Sciences (9 hours):  
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#### • Core Curriculum

o-Chemistry 1111 Introductory Chemistry I (5)

o-Chemistry 1121 Introductory Chemistry II (5)

o-Chemistry 2223 Quantitative Analysis (3)

o-Chemistry 3022 Intro. To Chemical Literature (1)

o-Chemistry 3312 Physical Chemistry I (3)

o-Chemistry 3322 Physical Chemistry II (3)

o-Chemistry 3333 Physical Chemistry Laboratory I (2)

o-Chemistry 3412 Basic Inorganic Chemistry (2)

o-Chemistry 2612 Organic Chemistry I (3)

o-Chemistry 2622 Organic Chemistry II (3)

o-Chemistry 2633 Organic Chemistry Laboratory (2)

o-Chemistry 4897 Seminar (1)

o-Chemistry 4212 Instrumental Analysis (2)

o-Chemistry 4233 Laboratory in Instrumental Analysis (2)

o-Chemistry 3643 Advanced Organic Chemistry Lab (2)

o-Chemistry 4712 Biochemistry (3)

o-Chemistry 4722 Advanced Biochemistry (3)

o-Chemistry 4733 Biochemistry Laboratory (2)

o- Advanced Elective (3 credits) must be from Chemistry 3905 Research in Chemistry, Chemistry 4764 Special Topics in Biochemistry (3) or Chemistry 4772 Physical Biochemistry (3). Research must be an approved biochemistry project.

#### • Related Area Requirements:

o-Math 1800 Analytical Geometry & Calculus I (5)

o-Math 1900 Analytical Geometry & Calculus II (5)

o-Math 2000 Analytical Geometry & Calculus III (5)

o-Phys 2111 Physics: Mechanics and Heat (5)

o-Phys 2112 Physics: Electricity, Magnetism & Optics (5)

o-Biology 1811 Introductory Biology (5)

o-Biology 3622 Biology (3) or Biology 2012 Genetics (3)

#### • Major Field Achievement Test:

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